

New York State Department of Transportation

Yellow Flag NB2358W016

By: Alex Abreu

Flag Date: May 31, 2023

Superseding Information:

No Flags Superseded

Structure Information

BIN: 1065318

Feature Carried: 278I278IX2M23027

Feature Crossed: 6TH AVENUE

Orientation: 8 - NORTHWEST

Region: 11 - NEW YORK CITY

County: KINGS

Political Unit: City of NEW YORK

Approximate Year Built: 1962

Posted Load Matches Inventory : Yes

Bridge Load Posting (Tons) : Not Posted for Load

Primary Owner: New York State Department of Transportation

Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party

Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

Number of Spans: 322

Verbal Notification Information

Person Notified: Muhammad Mubeen

Date: June 02, 2023 9:53:00 AM

Of: NYSDOT Region 11

Signature Information

Signature: Alex Abreu, P.E. 099761-1

Date: June 07, 2023

Reviewed By: Robert Kemp

Date: June 07, 2023

Attachments: 5

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 246			
	113 - Steel Stringer	104	ft
	PR831 - Steel Beam End	42	each

Flagged Condition Description

This Yellow Flag No. NB2358W016 is NEW.

Location: Span 246, Stringer S1 at Pier 246

Description:

Both connection angles at Stringer S1 in Span 246 at Pier 246 exhibit full height vertical cracks (9" high) in the fillet sections (Photos 4 and 5). The remaining areas of the stringer web and flanges exhibit no significant defects. (refer to Yellow Flag Condition Sketch Photo #2 for more details)

This is a newly flagged condition.

Notes:

1. The affected member Stringer S1 receives no direct live loading but acts as a support for the railing and curb area above.
2. The adjacent Girder G1 is a load path redundant steel girder and is located under the deck in the roadway, approximately 12" off the edge of curb line/safety walk, and 24" on center of S1. All dimensions were measured in the field. Girder G1 exhibits up to 30% section loss for the full height of the web for 2" wide along the connection angle with 1/2" diameter corrosion hole at the top cope. The top of the right connection angle exhibits 1" diameter corrosion hole with up to 1" pack rust between the angle and girder web and 30% section loss for the bottom 3" high of the angle. The left connection angle exhibits 1"H x 1/2"W corrosion hole at the bottom of the angle adjacent to the fillet section and up to 1" pack rust between the top of the angle and girder web.
3. Stringer S1 on Span 247 side of Pier 246 exhibits full height vertical cracks (9" high) in the fillet sections. This stringer has previously installed steel reinforcement repairs and support plates at the stringer web and underside of the stringer bottom flange to address these cracks. The steel reinforcement repairs are in good condition.
4. A double left lane closure on 3rd Avenue Westbound travel direction with a 35' bucket truck is required to access the flagged location.

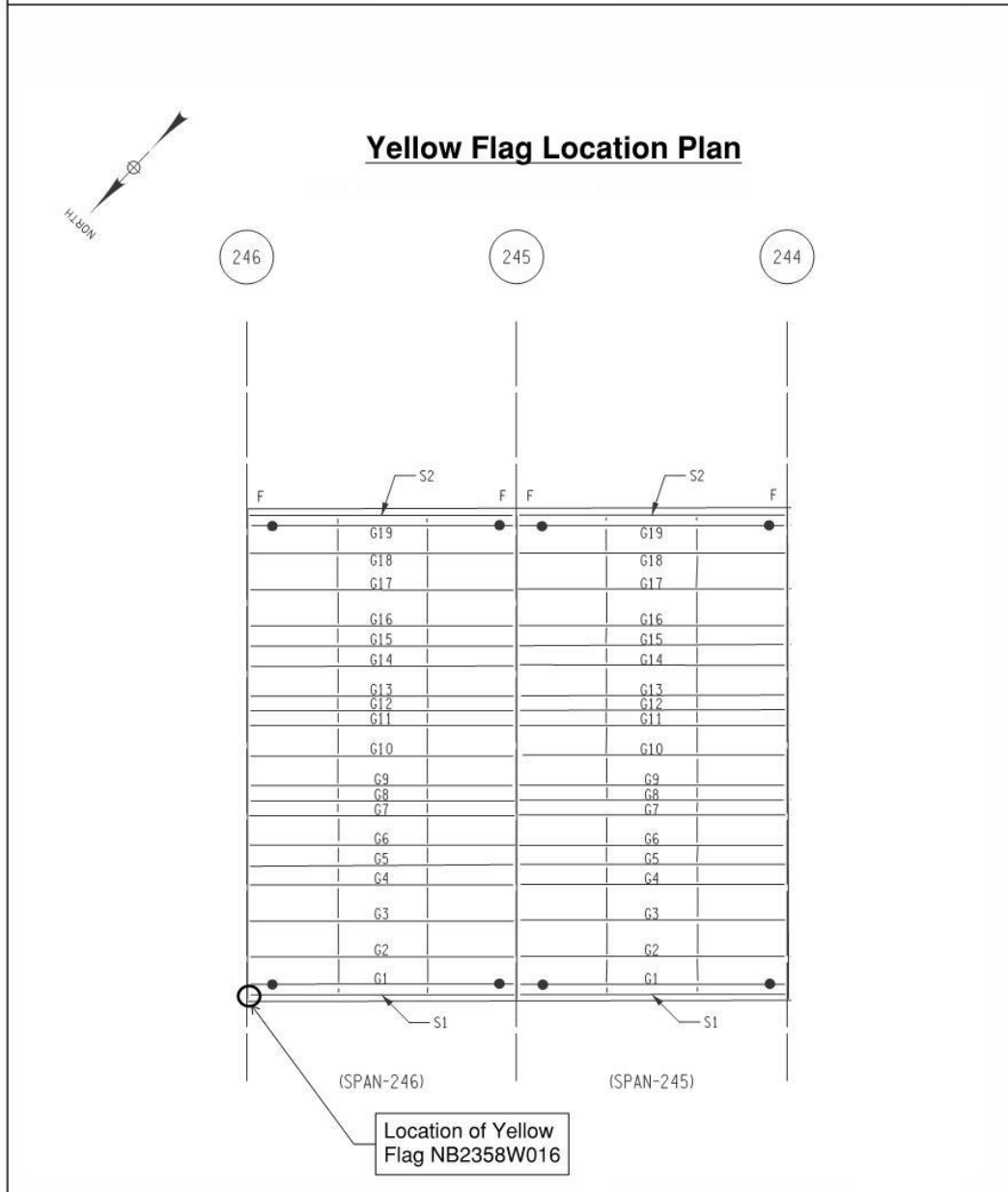
Flag PhotographsPhoto Number: **1**Photo Filename: **23_Flag Location Plan.jpg**Gowanus Expressway
2023 Biennial Inspection - Field SketchBIN: 1065318Team: AA/TSDate: 05/31/2023Span: 246Location: Stringer S1 at Pier 246**Attachment Description: Flag Location Plan**

Photo Number: 2

Photo Filename: 23_Span 246_Pier 246_Stringer S1_Connection

Gowanus Expressway
2023 Biennial Inspection - Field Sketch

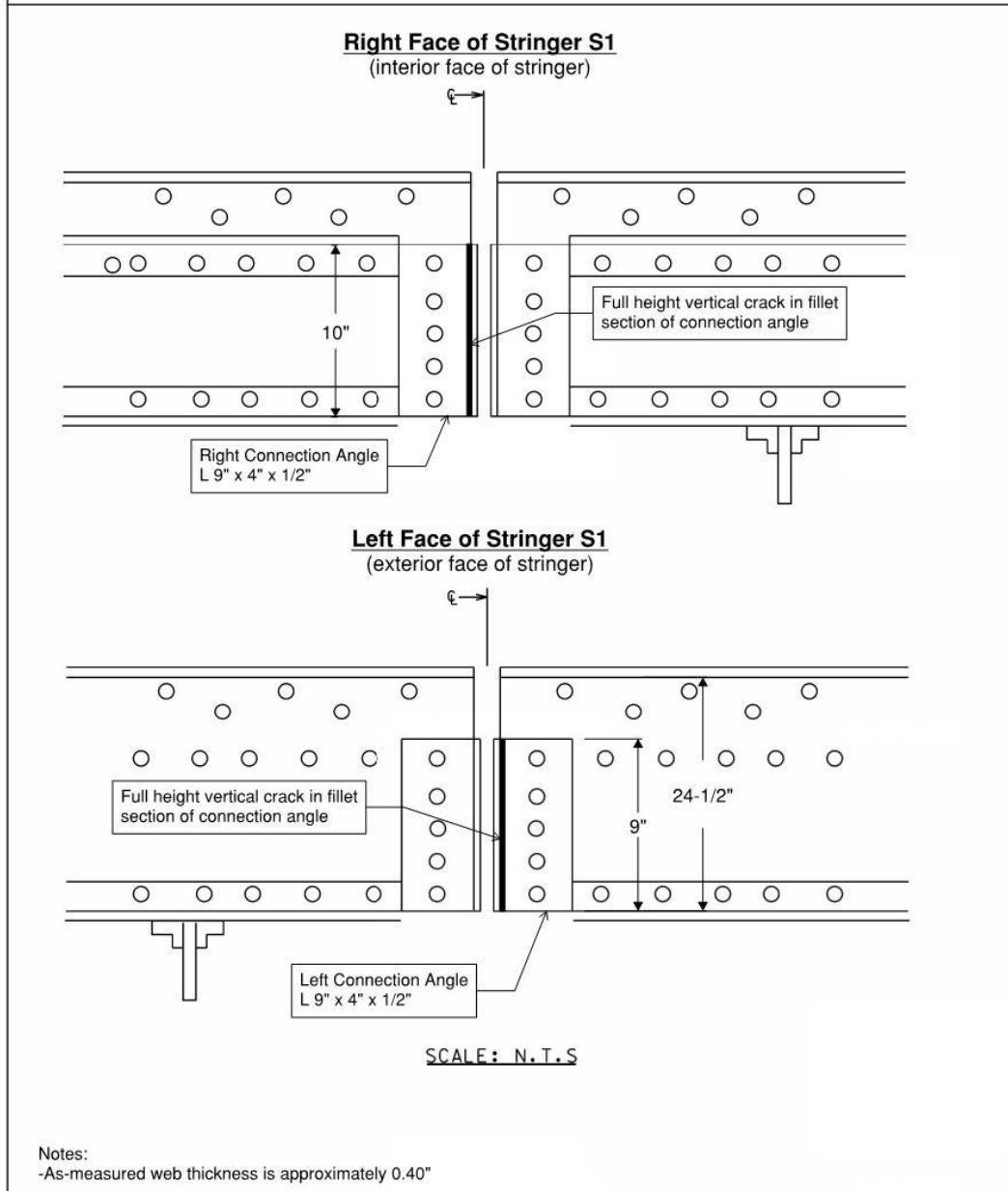
BIN: 1065318

Team: AA/TS

Date: 05/31/2023

Span: 246

Location: Stringer S1 at Pier 246

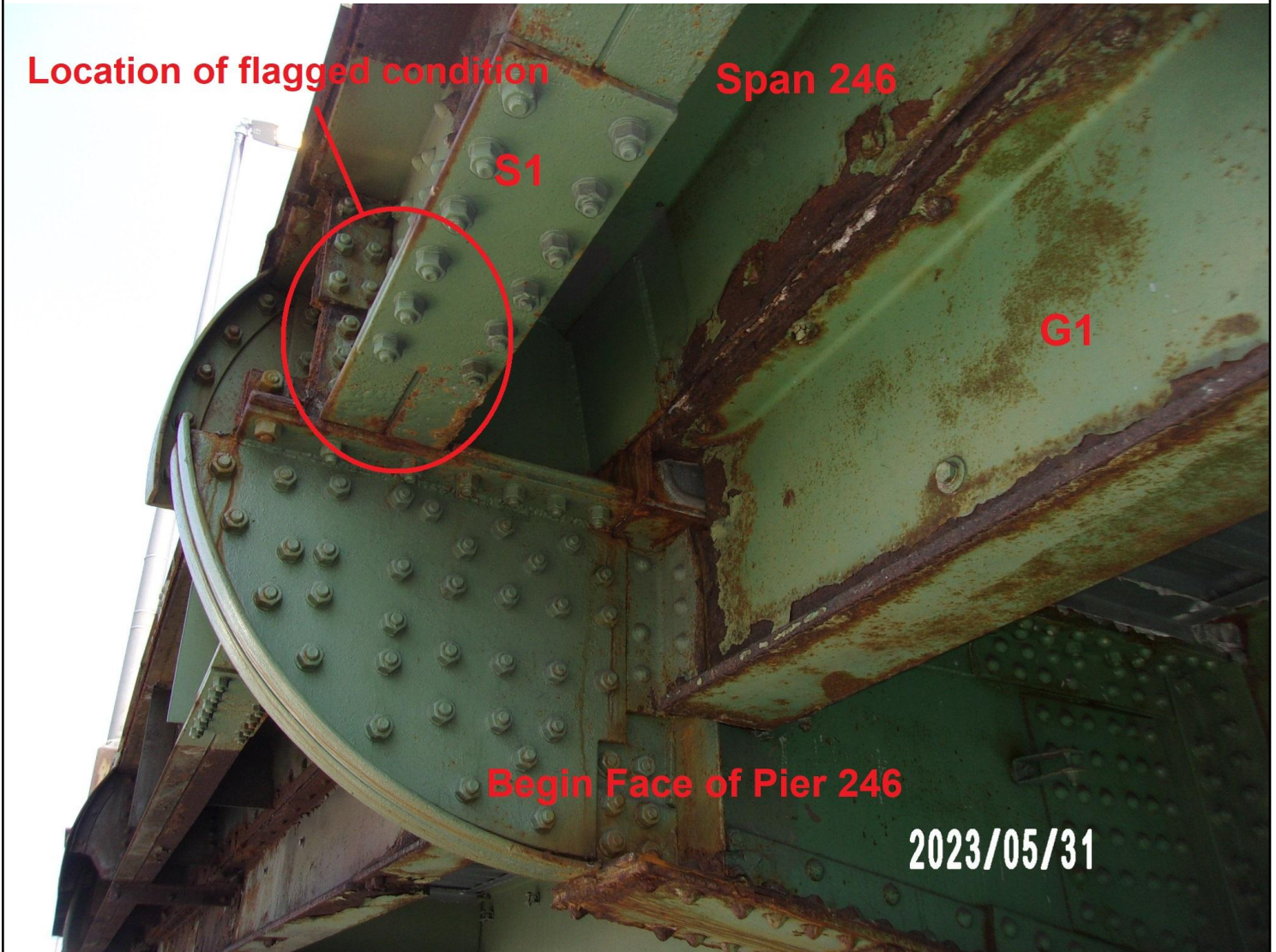


wsp

Attachment Description: Flag Condition Sketch

Photo Number: 3

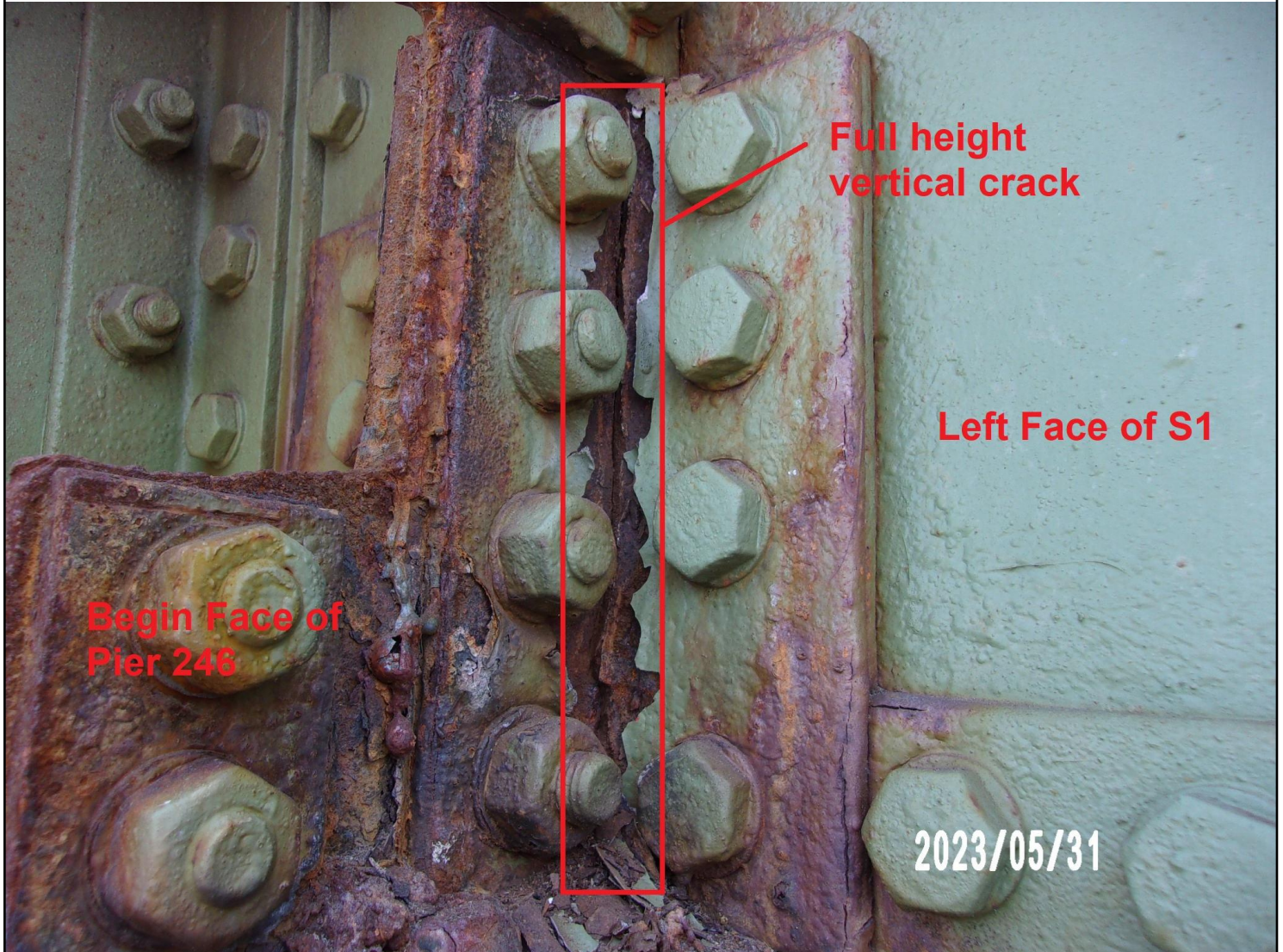
Photo Filename: 23_113_7423.JPG



Attachment Description: General view of the flagged condition at Stringer S1 in Span 246 at Pier 246. Looking End.

Photo Number: 4

Photo Filename: 23_113_7412.JPG



Attachment Description: The left face of Stringer S1 in Span 246 at Pier 246. The left connection angle exhibits full height vertical crack in the fillet section. Looking Right.

Photo Number: 5

Photo Filename: 23_113_7416.JPG



Attachment Description: The right face of Stringer S1 in Span 246 at Pier 246. The right connection angle exhibits full height vertical crack in the fillet section. Looking Left.